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Three-dimensional magnetization-prepared rapid gradient-echo imaging (3D MP RAGE)

JP Mugler III, JR Brookeman - Magnetic Resonance in ... 1990 - interscience.wiley.com

... Particularly exciting is the possibility of generating high-quality three-dimensional **image sets** of the ... mizing the contrast for a prepare-acquire imaging sequence such as 3D MP RAGE ... eliminate the formation of steady-state transverse magnetization and the **resulting** artifacts, and ...

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Acquiring a four-dimensional computed tomography dataset using an external respiratory signal

SS Vedam, PJ Keall, VR Kini, H ... - Physics in medicine ... 2003 - iopscience.iop.org

... bins will be performed, based on the corresponding **images** in the **respective** bins, and ... study were calculated using the volume obtained from contouring the original 3D **image set** of the ... Qualitative analysis of the **resultant images** was performed by visual observations of all the ...

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[PDF] High-resolution random mesh algorithms for creating a probabilistic 3D surface atlas of the human brain

PM Thompson, C Schwartz, AW Toga - NeuroImage, 1998 - Citeseer

... 3). Each **resultant** surface mesh is analogous in form to a regular rectangular grid, drawn on a ... These **sets** of contours were derived from the full series of sectional **images** spanning the left ... FIG. 5. A 3D displacement map shown on a 3D representation of the right cingulate sulcus ...

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Free-breathing whole-heart coronary MRA with 3D radial SSFP and self-navigated image reconstruction

C Stehning, P Börner, K Nehrke, H ... - Magnetic ... 2005 - interscience.wiley.com

... The **resulting** deviation between both lines (Fig. ... Self-Navigated **Image** Reconstruction ... In conclusion, a fast, free-breathing, whole-heart 3D cor-onary MRI technique with isotropic spatial resolution and intrinsic suppression of **respiratory** motion artifacts was implemented on a ...

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Molecular imaging with endogenous substances

K Goldman, JH Ardenkjaer-Larsen, JS ... - Proceedings of the ... 2003 - National Acad Sciences

... In the 3D **image set**, the total slab thickness was 32 mm, **resulting** in a slice ... With recent advances in scanner technology, proton 3D data **sets** can be acquired as fast as 7 ... work, combined with fast imaging pulse sequences, should open the possibility of improved **image** quality in ...

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Deformable m-reps for 3d medical image segmentation

SM Pizer, PT Fletcher, S Joshi, A Thall, JZ Chen ... - International Journal of ... 2003 - Springer

... shape, and in these large-tolerance stages discrete samplings can be coarse, **resulting** in considerable ef ... have a design tool for building m-rep models from a single training 3D-intensity data ... from a previous seg-mentation, eg, a manual segmentation, of the object in that **image**. ...

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4D MR imaging of respiratory organ motion and its variability

M Siebenlist, G Székely, U Gampert, P ... - Physics in medicine ... 2007 - iopscience.iop.org

... The **resulting** acquisition time per frame was 180–190 ms, yielding a temporal resolution of Page 6. 4D MRI of **respiratory** organ motion 1551 1 1 3 3 ... 2.3. Motion estimation The acquisition technique described above provides us with a **set** of temporally resolved 3D **images**. ...

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Modeling liver motion and deformation during the respiratory cycle using intensity-based nonrigid registration of gated MR images

T Rohlfing, CR Maurer Jr, WG O'Dell, J Zhong - Medical Physics, 2004 - link.aip.org

... in the end-expiration and end-inspiration **images** by manually tracing the surface in each **image** slice and triangulating the **resulting** curves using ... C. Studholme, DLG Hill, and DJ Hawkes, "An overlap invariant entropy measure of 3D medical **image** alignment," Pattern ...

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[psu.edu \[PDF\]](#)

The diminishing variance algorithm for real-time reduction of motion artifacts in MRI

TS Sachs, CH Meyer, P Iranzadeh, ... - Magnetic ... 1995 - interscience.wiley.com

... The **resultant image** is as motion-free as could be acquired given the time constraint. ... 6. Demonstration of the DVA on a healthy volunteer, using a 3D se-quence with a T2 preparatory pulse ... of all n shifts, where 1 is the number of data frames used to reconstruct an **image** and n ...


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Monte Carlo simulations with time-dependent geometries to investigate effects of organ motion with high temporal resolution

H Paganetti, H Jiang, JA Adams, GT Chen, E ... - International Journal of ... 2004 - Elsevier

... by a multileaf collimator (6). In conventional proton therapy, the incident beam has to penetrate through absorbers of variable thickness (ie, a modulator wheel), **resulting** in a ... This software package provides 3D voxel-based affine and nonrigid **image** registration algorithms ...

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